

Human	GPR56-1:	Met	Thr	Pro	Gln	Ser	Leu	Gln	Thr	Thr	Leu	Phe	Leu	Leu	Ser	Leu
Human	GPR56-2:	Met	Thr	Pro	Gln	Ser	Leu	Gln	Thr	Thr	Leu	Phe	Leu	Leu	Ser	Leu
Human	GPR56-3:	Met	Thr	Pro	Gln	Ser	Leu	Gln	Thr	Thr	Leu	Phe	Leu	Leu	Ser	Leu
Human	GPR56-4:	Met	Thr	Pro	Gln	Ser	Leu	Gln	Thr	Thr	Leu	Phe	Leu	Leu	Ser	Leu
Murine	GPR56:	Met	<b>Ala</b>	<b>Val</b>	Gln	<b>Val</b>	Leu	<b>Arg</b>	Gln	<b>Met</b>	<b>Val</b>	<b>Tyr</b>	Phe	Leu	Ser	Leu
		1				5					10				15	
Human	GPR56-1:	Leu	Phe	Leu	Val	Gln	Gly	Ala	His	Gly	Arg	Gly	His	Arg	Glu	Asp
Human	GPR56-2:	Leu	Phe	Leu	Val	Gln	Gly	Ala	His	Gly	Arg	Gly	His	Arg	Glu	Asp
Human	GPR56-3:	Leu	Phe	Leu	Val	Gln	Gly	Ala	His	Gly	Arg	Gly	His	Arg	Glu	Asp
Human	GPR56-4:	Leu	Phe	Leu	Val	Gln	Gly	Ala	His	Gly	Arg	Gly	His	Arg	Glu	Asp
Murine	GPR56:	<b>Phe</b>	<b>Ser</b>	Leu	Val	Gln	Gly	Ala	His	<b>Ser</b>	<b>Gly</b>	<b>Ser</b>	<b>Pro</b>	Arg	Glu	Asp
				20						25					30	
Human	GPR56-1:	Arg	Phe	Cys	Ser	Gln	Arg	Asn	Gln	Thr	His	Arg	Ser	Ser	Leu	His
Human	GPR56-2:	Arg	Phe	Cys	Ser	Gln	Arg	Asn	Gln	Thr	His	Arg	Ser	Ser	Leu	His
Human	GPR56-3:	Arg	Phe	Cys	Ser	Gln	Arg	Asn	Gln	Thr	His	Arg	Ser	Ser	Leu	His
Human	GPR56-4:	Arg	Phe	Cys	Ser	Gln	Arg	Asn	Gln	Thr	His	Arg	Ser	Ser	Leu	His
Murine	GPR56:	Arg	Phe	Cys	<b>Gly</b>	Gln	Arg	Asn	Gln	Thr	<b>Gln</b>	<b>Gln</b>	Ser	<b>Thr</b>	Leu	His
				35					40					45		
Human	GPR56-1:	Lys	Pro	Thr	Pro	Pro	Asp	Leu	Arg	Ile	Ser	Ile	Glu	Asn	Ser	Glu
Human	GPR56-2:	Lys	Pro	Thr	Pro	Pro	Asp	Leu	Arg	Ile	Ser	Ile	Glu	Asn	Ser	Glu
Human	GPR56-3:	Lys	Pro	Thr	Pro	Pro	Asp	Leu	Arg	Ile	Ser	Ile	Glu	Asn	Ser	Glu
Human	GPR56-4:	Lys	Pro	Thr	Pro	Pro	Asp	Leu	Arg	Ile	Ser	Ile	Glu	Asn	Ser	Glu
Murine	GPR56:	<b>Asp</b>	<b>Gln</b>	<b>Ser</b>	<b>Ser</b>	<b>Ser</b>	<b>Glu</b>	<b>Pro</b>	<b>His</b>	Ile	<b>Phe</b>	<b>Val</b>	<b>Trp</b>	Asn	<b>Thr</b>	<b>Glu</b>
				50					55					60		

[illegible]

Human GPR56-1:	Leu	Thr	Val	His	Ala	Pro	Phe	Pro	Ala	His	Pro	Ala	Ser	Arg	Ser
Human GPR56-2:	Leu	Thr	Val	His	Ala	Pro	Phe	Pro	Ala	His	Pro	Ala	Ser	Arg	Ser
Human GPR56-3:	Leu	Thr	Val	His	Ala	Pro	Phe	Pro	Ala	His	Pro	Ala	Ser	Arg	Ser
Human GPR56-4:	Leu	Thr	Val	His	Ala	Pro	Phe	Pro	Ala	His	Pro	Ala	Ser	Arg	Ser
Murine GPR56:	Leu	Thr	<b>Ile</b>	<b>Arg</b>	Ala	Pro	Phe	<b>Leu</b>	Ala	Ala	<b>Pro</b>	<b>Asp</b>	<b>Ile</b>	<b>Pro</b>	<b>Arg</b>
	65				70					75					80
Human GPR56-1:	Phe	Pro	Asp	Pro	Arg	Gly	Leu	Tyr	His	Phe	Cys	Leu	Tyr	Trp	Asn
Human GPR56-2:	Phe	Pro	Asp	Pro	Arg	Gly	Leu	Tyr	His	Phe	Cys	Leu	Tyr	Trp	Asn
Human GPR56-3:	Phe	Pro	Asp	Pro	Arg	Gly	Leu	Tyr	His	Phe	Cys	Leu	Tyr	Trp	Asn
Human GPR56-4:	Phe	Pro	Asp	Pro	Arg	Gly	Leu	Tyr	His	Phe	Cys	Leu	Tyr	Trp	Asn
Murine GPR56:	Phe	Pro	<b>Glu</b>	Pro	Arg	Gly	Leu	Tyr	His	Phe	Cys	Leu	Tyr	Trp	<b>Ser</b>
				85						90					95
Human GPR56-1:	His	Ala	Gly	Arg	Leu	His	Leu	Leu	Tyr	Gly	Lys	Arg	Asp	Phe	Leu
Human GPR56-2:	His	Ala	Gly	Arg	Leu	His	Leu	Leu	Tyr	Gly	Lys	Arg	Asp	Phe	Leu
Human GPR56-3:	His	Ala	Gly	Arg	Leu	His	Leu	Leu	Tyr	Gly	Lys	Arg	Asp	Phe	Leu
Human GPR56-4:	His	Ala	Gly	Arg	Leu	His	Leu	Leu	Tyr	Gly	Lys	Arg	Asp	Phe	Leu
Murine GPR56:	His	<b>Thr</b>	Gly	Arg	Leu	His	Leu	<b>Arg</b>	Tyr	Gly	Lys	His	Asp	<b>Tyr</b>	Leu
			100					105						110	
Human GPR56-1:	Ser	Asp	Lys	Ala	Ser	Ser	Leu	Leu	Cys	Phe	Gln	His	Gln	Glu	Glu
Human GPR56-2:	Ser	Asp	Lys	Ala	Ser	Ser	Leu	Leu	Cys	Phe	Gln	His	Gln	Glu	Glu
Human GPR56-3:	Ser	Asp	Lys	Ala	Ser	Ser	Leu	Leu	Cys	Phe	Gln	His	Gln	Glu	Glu
Human GPR56-4:	Ser	Asp	Lys	Ala	Ser	Ser	Leu	Leu	Cys	Phe	Gln	His	Gln	Glu	Glu
Murine GPR56:	Ser	<b>Ser</b>	<b>Gln</b>	Ala	Ser	<b>Arg</b>	Leu	Leu	Cys	Phe	Gln	<b>Lys</b>	Gln	Glu	<b>Gln</b>
			115					120							125

**FIGURE 1b**

Sequence of the protein

Human GPR56-1:	Leu	Ala	Gln	Gly	Pro	Pro	Pro	Leu	Leu	Ala	Thr	Ser	Ser	Val	Thr	Ser	Trp	Trp
Human GPR56-2:	Leu	Ala	Gln	Gly	Pro	Pro	Pro	Leu	Leu	Ala	Thr	Ser	Ser	Val	Thr	Ser	Trp	Trp
Human GPR56-3:	Leu	Ala	Gln	Gly	Pro	Pro	Pro	Leu	Leu	Ala	Thr	Ser	Ser	Val	Thr	Ser	Trp	Trp
Human GPR56-4:	Leu	Ala	Gln	Gly	Pro	Pro	Pro	Leu	Leu	Ala	Thr	Ser	Ser	Val	Thr	Ser	Trp	Trp
Murine GPR56:	Leu	<b>Lys</b>	Gln	Gly	<b>Ala</b>	Pro	Pro	Leu	Leu	<b>Ile</b>	Ala	Thr	Ser	Val	<b>Ser</b>	Ser	Trp	<b>Gln</b>
		130						135						140				
Human GPR56-1:	Ser	Pro	Gln	Asn	Ile	Ser	Leu	Leu	Pro	Ser	Ala	Ala	Ser	Ala	Ser	Thr	Phe	Ser
Human GPR56-2:	Ser	Pro	Gln	Asn	Ile	Ser	Leu	Leu	Pro	Ser	Ala	Ala	Ser	Ala	Ser	Thr	Phe	Ser
Human GPR56-3:	Ser	Pro	Gln	Asn	Ile	Ser	Leu	Leu	Pro	Ser	Ala	Ala	Ser	Ala	Ser	Thr	Phe	Ser
Human GPR56-4:	Ser	Pro	Gln	Asn	Ile	Ser	Leu	Leu	Pro	Ser	Ala	Ala	Ser	Ala	Ser	Thr	Phe	Ser
Murine GPR56:	<b>Ile</b>	Pro	Gln	Asn	<b>Thr</b>	Ser	Leu	Leu	Pro	<b>Gly</b>	Ala	<b>Pro</b>	Ser	<b>Pro</b>	Ser	<b>Ile</b>	Phe	Ser
	145				150							155						160
Human GPR56-1:	Phe	His	Ser	Pro	Pro	Pro	His	Thr	Ala	Ala	Ala	His	Asn	Ala	Ser	Val	Asp	Met
Human GPR56-2:	Phe	His	Ser	Pro	Pro	Pro	His	Thr	Ala	Ala	Ala	His	Asn	Ala	Ser	Val	Asp	Met
Human GPR56-3:	Phe	His	Ser	Pro	Pro	Pro	His	Thr	Ala	Ala	Ala	His	Asn	Ala	Ser	Val	Asp	Met
Human GPR56-4:	Phe	His	Ser	Pro	Pro	Pro	His	Thr	Ala	Ala	Ala	His	Asn	Ala	Ser	Val	Asp	Met
Murine GPR56:	Phe	His	<b>Asn</b>	<b>Ala</b>	Pro	Pro	His	<b>Lys</b>	<b>Val</b>	<b>Ser</b>	His	His	Asn	Ala	Ser	Val	Asp	Met
					165						170							175
Human GPR56-1:	Cys	Glu	Leu	Lys	Arg	Asp	Leu	Gln	Leu	Leu	Ser	Gln	Phe	Leu	Ser	Leu	Lys	His
Human GPR56-2:	Cys	Glu	Leu	Lys	Arg	Asp	Leu	Gln	Leu	Leu	Ser	Gln	Phe	Leu	Ser	Leu	Lys	His
Human GPR56-3:	Cys	Glu	Leu	Lys	Arg	Asp	Leu	Gln	Leu	Leu	Ser	Gln	Phe	Leu	Ser	Leu	Lys	His
Human GPR56-4:	Cys	Glu	Leu	Lys	Arg	Asp	Leu	Gln	Leu	Leu	Ser	Gln	Phe	Leu	Ser	Leu	Lys	His
Murine GPR56:	Cys	<b>Asp</b>	Leu	Lys	<b>Lys</b>	<b>Glu</b>	Leu	Gln	Gln	Leu	Ser	<b>Arg</b>	<b>Tyr</b>	Leu	Ser	Leu	<b>Gln</b>	His
					180						185							190

FIGURE 1c

Sequence Alignment

Human GPR56-1:	Pro	Gln	Lys	Ala	Ser	Arg	Arg	Pro	Ser	Ala	Ala	Pro	Ala	Ser	Gln	Gln
Human GPR56-2:	Pro	Gln	Lys	Ala	Ser	Arg	Arg	Pro	Ser	Ala	Ala	Pro	Ala	Ser	Gln	Gln
Human GPR56-3:	Pro	Gln	Lys	Ala	Ser	Arg	Arg	Pro	Ser	Ala	Ala	Pro	Ala	Ser	Gln	Gln
Human GPR56-4:	Pro	Gln	Lys	Ala	Ser	Arg	Arg	Pro	Ser	Ala	Ala	Pro	Ala	Ser	Gln	Gln
Murine GPR56:	Pro	Gln	Lys	Ala	<b>Ala</b>	<b>Lys</b>	Arg	Pro	<b>Thr</b>	Ala	Ala	<b>Phe</b>	<b>Ile</b>	Ser	Gln	Gln
			195					200								205
Human GPR56-1:	Leu	Gln	Ser	Leu	Glu	Ser	Lys	Leu	Thr	Ser	Val	Arg	Phe	Met	Gly	Asp
Human GPR56-2:	Leu	Gln	Ser	Leu	Glu	Ser	Lys	Leu	Thr	Ser	Val	Arg	Phe	Met	Gly	Asp
Human GPR56-3:	Leu	Gln	Ser	Leu	Glu	Ser	Lys	Leu	Thr	Ser	Val	Arg	Phe	Met	Gly	Asp
Human GPR56-4:	Leu	Gln	Ser	Leu	Glu	Ser	Lys	Leu	Thr	Ser	Val	Arg	Phe	Met	Gly	Asp
Murine GPR56:	Leu	Gln	Ser	Leu	Glu	Ser	Lys	Leu	Thr	Ser	Val	<b>Ser</b>	Phe	<b>Leu</b>	Gly	Asp
			210					215								220
Human GPR56-1:	Met	Val	Ser	Phe	Glu	Glu	Glu	Arg	Ile	Asn	Ala	Thr	Val	Trp	Lys	Leu
Human GPR56-2:	Met	Val	Ser	Phe	Glu	Glu	Glu	Arg	Ile	Asn	Ala	Thr	Val	Trp	Lys	Leu
Human GPR56-3:	Met	Val	Ser	Phe	Glu	Glu	Glu	Arg	Ile	Asn	Ala	Thr	Val	Trp	Lys	Leu
Human GPR56-4:	Met	Val	Ser	Phe	Glu	Glu	Glu	Arg	Ile	Asn	Ala	Thr	Val	Trp	Lys	Leu
Murine GPR56:	<b>Thr</b>	<b>Leu</b>	Ser	Phe	Glu	Glu	Glu	Arg	<b>Val</b>	Asn	Ala	Thr	Val	Trp	Lys	Leu
			225					230								240
Human GPR56-1:	Gln	Pro	Thr	Ala	Gly	Leu	Gln	Asp	Leu	His	Ile	His	Ser	Arg	Gln	Glu
Human GPR56-2:	Gln	Pro	Thr	Ala	Gly	Leu	Gln	Asp	Leu	His	Ile	His	Ser	Arg	Gln	Glu
Human GPR56-3:	Gln	Pro	Thr	Ala	Gly	Leu	Gln	Asp	Leu	His	Ile	His	Ser	Arg	Gln	Glu
Human GPR56-4:	Gln	Pro	Thr	Ala	Gly	Leu	Gln	Asp	Leu	His	Ile	His	Ser	Arg	Gln	Glu
Murine GPR56:	<b>Pro</b>	Pro	Thr	Ala	Gly	Leu	Glu	Asp	Leu	His	Ile	His	Ser	<b>Gln</b>	<b>Lys</b>	Glu
																255

FIGURE 1d

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Human GPR56-1:	Glu	Glu	Gln	Ser	Glu	Ile	Met	Glu	Tyr	Ser	Val	Leu	Leu	Pro	Arg	Thr
Human GPR56-2:	Glu	Glu	Gln	Ser	Glu	Ile	Met	Glu	Tyr	Ser	Val	Leu	Leu	Pro	Arg	Thr
Human GPR56-3:	Glu	Glu	Gln	Ser	Glu	Ile	Met	Glu	Tyr	Ser	Val	Leu	Leu	Pro	Arg	Thr
Human GPR56-4:	Glu	Glu	Gln	Ser	Glu	Ile	Met	Glu	Tyr	Ser	Val	Leu	Leu	Pro	Arg	Thr
Murine GPR56:	Glu	Glu	Gln	Ser	Glu	<b>Val</b>	<b>Gln</b>	<b>Ala</b>	Tyr	Ser	<b>Leu</b>	Leu	Leu	Pro	Arg	<b>Ala</b>
						260			265						270	
Human GPR56-1:	Leu	Phe	Gln	Arg	Thr	Lys	Gly	Arg	Ser	Gly	Glu	Ala	Glu	Lys	Arg	Leu
Human GPR56-2:	Leu	Phe	Gln	Arg	Thr	Lys	Gly	Arg	Ser	Gly	Glu	Ala	Glu	Lys	Arg	Leu
Human GPR56-3:	Leu	Phe	Gln	Arg	Thr	Lys	Gly	Arg	Ser	Gly	Glu	Ala	Glu	Lys	Arg	Leu
Human GPR56-4:	Leu	Phe	Gln	Arg	Thr	Lys	Gly	Arg	Ser	Gly	Glu	Ala	Glu	Lys	Arg	Leu
Murine GPR56:	Val	Phe	Gln	Gln	Thr	Arg	Gly	Arg	Arg	Arg	Asp	Ala	Asp	Lys	Arg	Leu
						275									285	
Human GPR56-1:	Leu	Leu	Val	Asp	Phe	Ser	Ser	Gln	Ala	Leu	Phe	Gln	Asp	Lys	Asn	Ser
Human GPR56-2:	Leu	Leu	Val	Asp	Phe	Ser	Ser	Gln	Ala	Leu	Phe	Gln	Asp	Lys	Asn	Ser
Human GPR56-3:	Leu	Leu	Val	Asp	Phe	Ser	Ser	Gln	Ala	Leu	Phe	Gln	Asp	Lys	Asn	Ser
Human GPR56-4:	Leu	Leu	Val	Asp	Phe	Ser	Ser	Gln	Ala	Leu	Phe	Gln	Asp	Lys	Asn	Ser
Murine GPR56:	Leu	Val	Val	Asp	Phe	Ser	Ser	Gln	Ala	Leu	Phe	Gln	Asp	Lys	Asn	Ser
						290										
Human GPR56-1:	Ser	Gln	Val	Leu	Gly	Glu	Lys	Val	Leu	Gly	Ile	Val	Val	Gln	Asn	Thr
Human GPR56-2:	Ser	<b>His</b>	Val	Leu	Gly	Glu	Lys	Val	Leu	Gly	Ile	Val	Val	Gln	Asn	Thr
Human GPR56-3:	Ser	Gln	Val	Leu	Gly	Glu	Lys	Val	Leu	Gly	Ile	Val	Val	Gln	Asn	Thr
Human GPR56-4:	Ser	Gln	Val	Leu	Gly	Glu	Lys	Val	Leu	Gly	Ile	Val	Val	Gln	Asn	Thr
Murine GPR56:	Ser	Gln	Val	Leu	Gly	Glu	Lys	Val	Leu	Gly	Ile	Val	Val	Gln	Asn	Thr
						305										320

FIGURE 1e

Human GPR56-1:	Lys	Val	Ala	Asn	Leu	Thr	Glu	Pro	Val	Val	Leu	Thr	Phe	Gln	His	Gln
Human GPR56-2:	Lys	Val	Ala	Asn	Leu	Thr	Glu	Pro	Val	Val	Leu	Thr	Phe	Gln	His	Gln
Human GPR56-3:	Lys	Val	Ala	Asn	Leu	Thr	Glu	Pro	Val	Val	Leu	Thr	Phe	Gln	His	Gln
Human GPR56-4:	Lys	Val	Ala	Asn	Leu	Thr	Glu	Pro	Val	Val	Leu	Thr	Phe	Gln	His	Gln
Murine GPR56:	Lys	Val	<b>Thr</b>	Asn	Leu	<b>Ser Asp</b>		Pro	Val	Val	Leu	Thr	Phe	Gln	His	Gln
																335
																330
Human GPR56-1:	Leu	Gln	Pro	Lys	Asn	Val	Thr	Leu	Gln	Cys	Val	Phe	Trp	Val	Glu	Asp
Human GPR56-2:	Leu	Gln	Pro	Lys	Asn	Val	Thr	Leu	Gln	Cys	Val	Phe	Trp	Val	Glu	Asp
Human GPR56-3:	Leu	Gln	Pro	Lys	Asn	Val	Thr	Leu	Gln	Cys	Val	Phe	Trp	Val	Glu	Asp
Human GPR56-4:	Leu	Gln	Pro	Lys	Asn	Val	Thr	Leu	Gln	Cys	Val	Phe	Trp	Val	Glu	Asp
Murine GPR56:	<b>Pro</b>	Gln	Pro	Lys	Asn	Val	Thr	Leu	Gln	Cys	Val	Phe	Trp	Val	Glu	Asp
																340
																345
Human GPR56-1:	Pro	Thr	Leu	Ser	Ser	Pro	Gly	His	Trp	Ser	Ser	Ala	Gly	Cys	Glu	Thr
Human GPR56-2:	Pro	Thr	Leu	Ser	Ser	Pro	Gly	His	Trp	Ser	Ser	Ala	Gly	Cys	Glu	Thr
Human GPR56-3:	Pro	Thr	Leu	Ser	Ser	Pro	Gly	His	Trp	Ser	Ser	Ala	Gly	Cys	Glu	Thr
Human GPR56-4:	Pro	Thr	Leu	Ser	Ser	Pro	Gly	His	Trp	Ser	Ser	Ala	Gly	Cys	Glu	Thr
Murine GPR56:	Pro	<b>Ala Ser</b>	Ser	Ser	Ser	<b>Thr</b>	Gly	<b>Ser</b>	Trp	Ser	Ser	Ala	Gly	Cys	Glu	Thr
																355
																360
Human GPR56-1:	Val	Arg	Arg	Glu	Thr	Gln	Thr	Ser	Cys	Phe	Cys	Asn	His	Leu	Thr	Tyr
Human GPR56-2:	Val	Arg	Arg	Glu	Thr	Gln	Thr	Ser	Cys	Phe	Cys	Asn	His	Leu	Thr	Tyr
Human GPR56-3:	Val	Arg	Arg	Glu	Thr	Gln	Thr	Ser	Cys	Phe	Cys	Asn	His	Leu	Thr	Tyr
Human GPR56-4:	Val	Arg	Arg	Glu	Thr	Gln	Thr	Ser	Cys	Phe	Cys	Asn	His	Leu	Thr	Tyr
Murine GPR56:	Val	<b>Ser</b>	Arg	<b>Asp</b>	Thr	Gln	Thr	Ser	Cys	<b>Leu</b>	Cys	Asn	His	Leu	Thr	Tyr
																370
																375
																380

FIGURE 1f

# Sequence Alignment

Human GPR56-1:	Phe	Ala	Val	Leu	Met	Val	Ser	Ser	Val	Glu	Val	Asp	Ala	Val	His	Lys
Human GPR56-2:	Phe	Ala	Val	Leu	Met	Val	Ser	Ser	Val	Glu	Val	Asp	Ala	Val	His	Lys
Human GPR56-3:	Phe	Ala	Val	Leu	Met	Val	Ser	Ser	Val	Glu	Val	Asp	Ala	Val	His	Lys
Human GPR56-4:	Phe	Ala	Val	Leu	Met	Val	Ser	Ser	Val	Glu	Val	Asp	Ala	Val	His	Lys
Murine GPR56:	Phe	Ala	Val	Leu	Met	Val	Ser	Ser	<b>Thr</b>	Glu	Val	<b>Glu</b>	Ala	<b>Thr</b>	His	Lys
	385					390					395					400
Human GPR56-1:	His	Tyr	Leu	Ser	Leu	Leu	Ser	Tyr	Val	Gly	Cys	Val	Val	Ser	Ala	Leu
Human GPR56-2:	His	Tyr	Leu	Ser	Leu	Leu	Ser	Tyr	Val	Gly	Cys	Val	Val	Ser	Ala	Leu
Human GPR56-3:	His	Tyr	Leu	Ser	Leu	Leu	Ser	Tyr	Val	Gly	Cys	Val	Val	Ser	Ala	Leu
Human GPR56-4:	His	Tyr	Leu	Ser	Leu	Leu	Ser	Tyr	Val	Gly	Cys	Val	Val	Ser	Ala	Leu
Murine GPR56:	His	Tyr	Leu	<b>Thr</b>	Leu	Leu	Ser	Tyr	Val	Gly	Cys	Val	<b>Ile</b>	Ser	Ala	Leu
				405						410					415	
Human GPR56-1:	Ala	Cys	Leu	Val	Thr	Ile	Ala	Ala	Tyr	Leu	Cys	Ser	Arg	Val	Pro	Leu
Human GPR56-2:	Ala	Cys	Leu	Val	Thr	Ile	Ala	Ala	Tyr	Leu	Cys	Ser	Arg	Val	Pro	Leu
Human GPR56-3:	Ala	Cys	Leu	Val	Thr	Ile	Ala	Ala	Tyr	Leu	Cys	Ser	Arg	Val	Pro	Leu
Human GPR56-4:	Ala	Cys	Leu	Val	Thr	Ile	Ala	Ala	Tyr	Leu	Cys	Ser	Arg	---	---	---
Murine GPR56:	Ala	Cys	<b>Val</b>	<b>Phe</b>	<b>Thr</b>	Thr	Ile	Ala	Tyr	Leu	Cys	Ser	Arg	---	---	---
				420					425						430	
Human GPR56-1:	Pro	Cys	Arg	Arg	Arg	Lys	Pro	Arg	Asp	Tyr	Thr	Ile	Lys	Val	His	Met
Human GPR56-2:	Pro	Cys	Arg	Arg	Arg	Lys	Pro	Arg	Asp	Tyr	Thr	Ile	Lys	Val	His	Met
Human GPR56-3:	Pro	Cys	Arg	Arg	Arg	Lys	Pro	Arg	Asp	Tyr	Thr	Ile	Lys	Val	His	Met
Human GPR56-4:	---	---	---	---	Arg	Lys	Pro	Arg	Asp	Tyr	Thr	Ile	Lys	Val	His	Met
Murine GPR56:	---	---	---	---	Arg	Lys	<b>Ser</b>	Arg	Asp	Tyr	Thr	Ile	Lys	Val	His	Met
				435					440						445	

FIGURE 1g

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Sequence # 4502233

Human GPR56-1:	Leu	Leu	Leu	Ala	Val	Phe	Leu	Leu	Leu	Leu	Leu	Leu	Ser	Glu
Human GPR56-2:	Leu	Leu	Leu	Ala	Val	Phe	Leu	Leu	Leu	Leu	Leu	Leu	Ser	Glu
Human GPR56-3:	Leu	Leu	Leu	Ala	Val	Phe	Leu	Leu	Leu	Leu	Leu	Leu	Ser	Glu
Human GPR56-4:	Leu	Leu	Leu	Ala	Val	Phe	Leu	Leu	Leu	Leu	Leu	Leu	Ser	Glu
Murine GPR56:	Leu	Leu	Ser	Ala	Val	Phe	Leu	Leu	Leu	Leu	Leu	Leu	Ser	Glu
		450						455					460	
Human GPR56-1:	Pro	Val	Ala	Leu	Thr	Gly	Ser	Glu	Ala	Gly	Cys	Arg	Ala	Ile
Human GPR56-2:	Pro	Val	Ala	Leu	Thr	Gly	Ser	Glu	Ala	Gly	Cys	Arg	Ala	Ile
Human GPR56-3:	Pro	Val	Ala	Leu	Thr	Gly	Ser	Glu	Ala	Gly	Cys	Arg	Ala	Ile
Human GPR56-4:	Pro	Val	Ala	Leu	Thr	Gly	Ser	Glu	Ala	Gly	Cys	Arg	Ala	Ile
Murine GPR56:	Pro	Val	Ala	Leu	Thr	Gly	Ser	Glu	Ala	Ala	Cys	Arg	<b>Thr</b>	Ser
	465				470						475			<b>Met</b>
														480
Human GPR56-1:	Phe	Leu	His	Phe	Ser	Leu	Leu	Thr	Cys	Leu	Ser	Trp	Met	Gly
Human GPR56-2:	Phe	Leu	His	Phe	Ser	Leu	Leu	Thr	Cys	Leu	Ser	Trp	Met	Gly
Human GPR56-3:	Phe	Leu	His	Phe	Ser	Leu	Leu	Thr	Cys	Leu	Ser	Trp	Met	Gly
Human GPR56-4:	Phe	Leu	His	Phe	Ser	Leu	Leu	Thr	Cys	Leu	Ser	Trp	Met	Gly
Murine GPR56:	Phe	Leu	His	Phe	Ser	Leu	Leu	<b>Ala</b>	Cys	Leu	Ser	Trp	Met	Gly
					485									495
Human GPR56-1:	Gly	Tyr	Asn	Leu	Tyr	Arg	Leu	Val	Val	Glu	Val	Phe	Gly	Thr
Human GPR56-2:	Gly	Tyr	Asn	Leu	Tyr	Arg	Leu	Val	Val	Glu	Val	Phe	Gly	Thr
Human GPR56-3:	Gly	Tyr	Asn	Leu	Tyr	Arg	Leu	Val	Val	Glu	Val	Phe	Gly	Thr
Human GPR56-4:	Gly	Tyr	Asn	Leu	Tyr	Arg	Leu	Val	Val	Glu	Val	Phe	Gly	Thr
Murine GPR56:	Gly	Tyr	Asn	Leu	Tyr	Arg	Leu	Val	Val	Glu	Val	Phe	Gly	Thr
														500
														505
														510

FIGURE 1h



Human GPR56-1: 515

Human GPR56-1: 515  
Human GPR56-2: 520  
Human GPR56-3: 525  
Human GPR56-4: 530  
Murine GPR56: 535

Human GPR56-1: 540  
Human GPR56-2: 545  
Human GPR56-3: 550  
Human GPR56-4: 555  
Murine GPR56: 560

Human GPR56-1: 565  
Human GPR56-2: 570  
Human GPR56-3: 575  
Human GPR56-4: 580  
Murine GPR56: 585

Human GPR56-1: 590  
Human GPR56-2: 595  
Human GPR56-3: 600  
Human GPR56-4: 605  
Murine GPR56: 610

FIGURE 1i

Human GPR56-1:	Leu	Phe	Ser	Leu	Val	Phe	Leu	Phe	Asn	Met	Ala	Met	Leu	Ala	Thr	Met
Human GPR56-2:	Leu	Phe	Ser	Leu	Val	Phe	Leu	Phe	Asn	Met	Ala	Met	Leu	Ala	Thr	Met
Human GPR56-3:	Leu	Phe	Ser	Leu	Val	Phe	Leu	Phe	Asn	Met	Ala	Met	Leu	Ala	Thr	Met
Human GPR56-4:	Leu	Phe	Ser	Leu	Val	Phe	Leu	Phe	Asn	Met	Ala	Met	Leu	Ala	Thr	Met
Murine GPR56:	Leu	Phe	Ser	Leu	Val	Phe	Leu	Phe	Asn	<b>Leu</b>	Ala	Met	Leu	Ala	Thr	Met
				580					585							590
Human GPR56-1:	Val	Val	Gln	Ile	Leu	Arg	Leu	Arg	Pro	His	Thr	Gln	Lys	Trp	Ser	His
Human GPR56-2:	Val	Val	Gln	Ile	Leu	Arg	Leu	Arg	Pro	His	Thr	Gln	Lys	Trp	Ser	His
Human GPR56-3:	Val	Val	Gln	Ile	Leu	Arg	Leu	Arg	Pro	His	Thr	Gln	Lys	Trp	Ser	His
Human GPR56-4:	Val	Val	Gln	Ile	Leu	Arg	Leu	Arg	Pro	His	Thr	Gln	Lys	Trp	Ser	His
Murine GPR56:	Val	Val	Gln	Ile	Leu	Arg	Leu	Arg	Pro	His	<b>Ser</b>	Gln	<b>Asn</b>	Trp	<b>Pro</b>	His
				595					600							605
Human GPR56-1:	Val	Leu	Thr	Leu	Leu	Gly	Leu	Ser	Leu	Val	Leu	Gly	Leu	Pro	Trp	Ala
Human GPR56-2:	Val	Leu	Thr	Leu	Leu	Gly	Leu	Ser	Leu	Val	Leu	Gly	Leu	Pro	Trp	Ala
Human GPR56-3:	Val	Leu	Thr	Leu	Leu	Gly	Leu	Ser	Leu	Val	Leu	Gly	Leu	Pro	Trp	Ala
Human GPR56-4:	Val	Leu	Thr	Leu	Leu	Gly	Leu	Ser	Leu	Val	Leu	Gly	Leu	Pro	Trp	Ala
Murine GPR56:	Val	Leu	Thr	Leu	Leu	Gly	Leu	Ser	Leu	Val	Leu	Gly	Leu	Pro	Trp	Ala
				610					615							620
Human GPR56-1:	Leu	Ile	Phe	Phe	Ser	Phe	Ala	Ser	Gly	Thr	Phe	Gln	Leu	Val	Val	Leu
Human GPR56-2:	Leu	Ile	Phe	Phe	Ser	Phe	Ala	Ser	Gly	Thr	Phe	Gln	Leu	Val	Val	Leu
Human GPR56-3:	Leu	Ile	Phe	Phe	Ser	Phe	Ala	Ser	Gly	Thr	Phe	Gln	Leu	Val	Val	Leu
Human GPR56-4:	Leu	Ile	Phe	Phe	Ser	Phe	Ala	Ser	Gly	Thr	Phe	Gln	Leu	Val	Val	Leu
Murine GPR56:	Leu	<b>Val</b>	Phe	Phe	Ser	Phe	Ala	Ser	Gly	Thr	Phe	Gln	Leu	Val	<b>Ile</b>	Leu
	625															640
																635
																630

FIGURE 1j

Human GPR56-1:	Tyr	Leu	Phe	Ser	Ile	Ile	Thr	Ser	Phe	Gln	Gly	Phe	Leu	Ile	Phe	Ile
Human GPR56-2:	Tyr	Leu	Phe	Ser	Ile	Ile	Thr	Ser	Phe	Gln	Gly	Phe	Leu	Ile	Phe	Ile
Human GPR56-4:	Tyr	Leu	Phe	Ser	Ile	Ile	Thr	Ser	Phe	Gln	Gly	Phe	Leu	Ile	Phe	Ile
Human GPR56-5:	Tyr	Leu	Phe	Ser	Ile	Ile	Thr	Ser	Phe	Gln	Gly	Phe	Leu	Ile	Phe	Ile
Murine GPR56:	Tyr	Leu	Phe	Ser	Ile	Ile	Thr	Ser	<b>Tyr</b>	Gln	Gly	Phe	Leu	Ile	Phe	<b>Leu</b>
						645				650						655
Human GPR56-1:	Trp	Tyr	Trp	Ser	Met	Arg	Arg	Leu	Gln	Ala	Arg	Gly	Gly	Pro	Ser	Pro
Human GPR56-2:	Trp	Tyr	Trp	Ser	Met	Arg	Arg	Leu	Gln	Ala	Arg	Gly	Gly	Pro	Ser	Pro
Human GPR56-3:	Trp	Tyr	Trp	Ser	Met	Arg	Arg	Leu	Gln	Ala	Arg	Gly	Gly	Pro	Ser	Pro
Human GPR56-4:	Trp	Tyr	Trp	Ser	Met	Arg	Arg	Leu	Gln	Ala	Arg	Gly	Gly	Pro	Ser	Pro
Murine GPR56:	Trp	Tyr	Trp	Ser	Met	Arg	<b>Phe</b>	Gln	Gln	Ala	<b>Gln</b>	Gly	Gly	Pro	Ser	Pro
						660					665					670
Human GPR56-1:	Lys	Ser	Asn	Ser	Asp	Cys	Ala	Arg	Leu	Pro	Ile	Ser	Ser	Gly	Ser	Thr
Human GPR56-2:	Lys	Ser	Asn	Ser	Asp	Ser	Ala	Arg	Leu	Pro	Ile	Ser	Ser	Gly	Ser	Thr
Human GPR56-3:	Lys	Ser	Asn	Ser	Asp	Ser	Ala	Arg	Leu	Pro	Ile	Ser	Ser	Gly	Ser	Thr
Human GPR56-4:	Lys	Ser	Asn	Ser	Asp	Ser	Ala	Arg	Leu	Pro	Ile	Ser	Ser	Gly	Ser	Thr
Murine GPR56:	Lys	<b>Asn</b>	Asn	Ser	Asp	Ser	Ala	<b>Lys</b>	Leu	Pro	Ile	Ser	Ser	Gly	Ser	Thr
						675										685
Human GPR56-1:	Ser	Ser	Ser	Arg	Ile											
Human GPR56-2:	Ser	Ser	Ser	Arg	Ile											
Human GPR56-3:	Ser	Ser	Ser	Arg	Ile											
Human GPR56-4:	Ser	Ser	Ser	Arg	Ile											
Murine GPR56:	Ser	Ser	Ser	Arg	Ile											
						690										

FIGURE 1k

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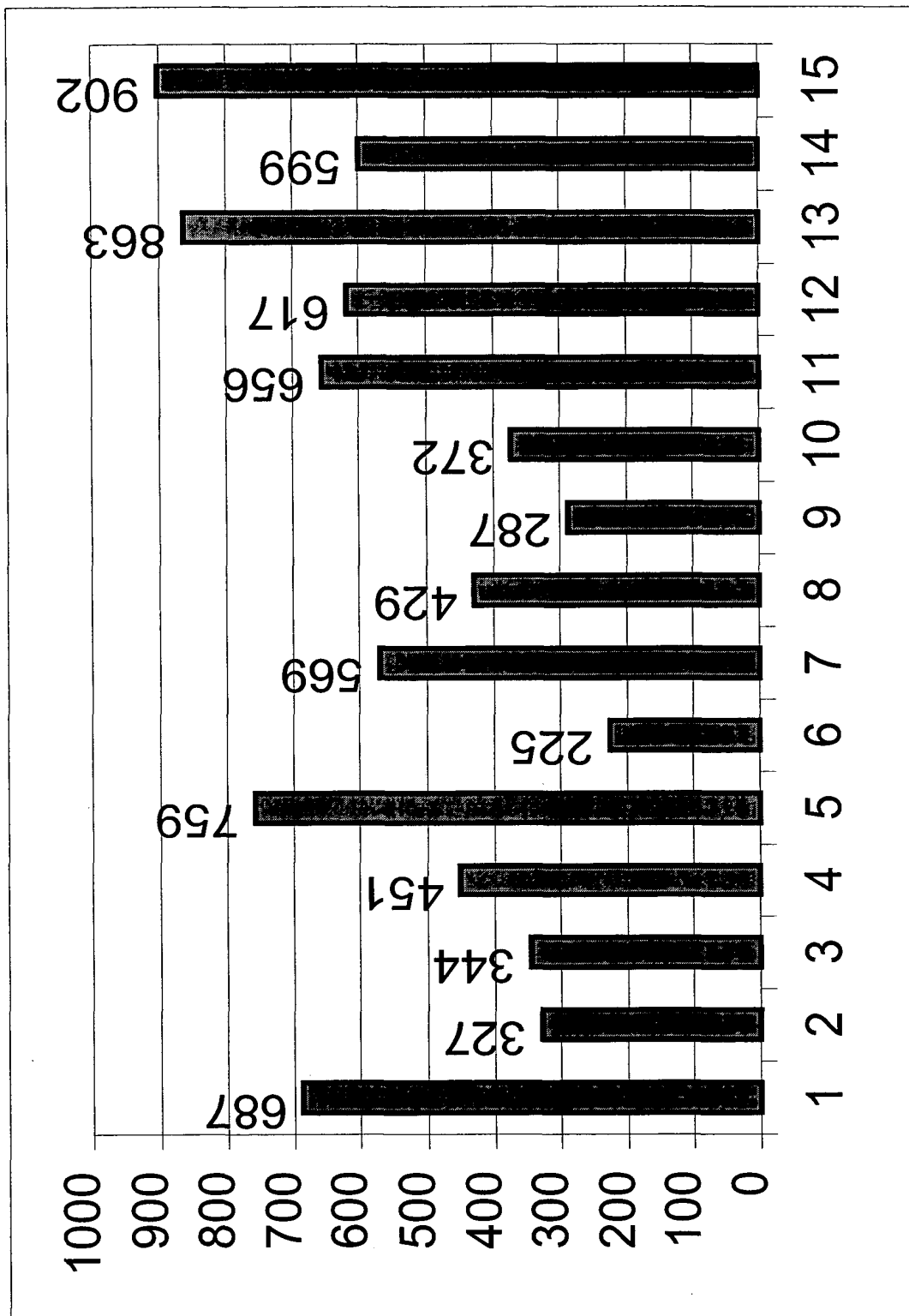


FIGURE 2a

FIGURE 2a

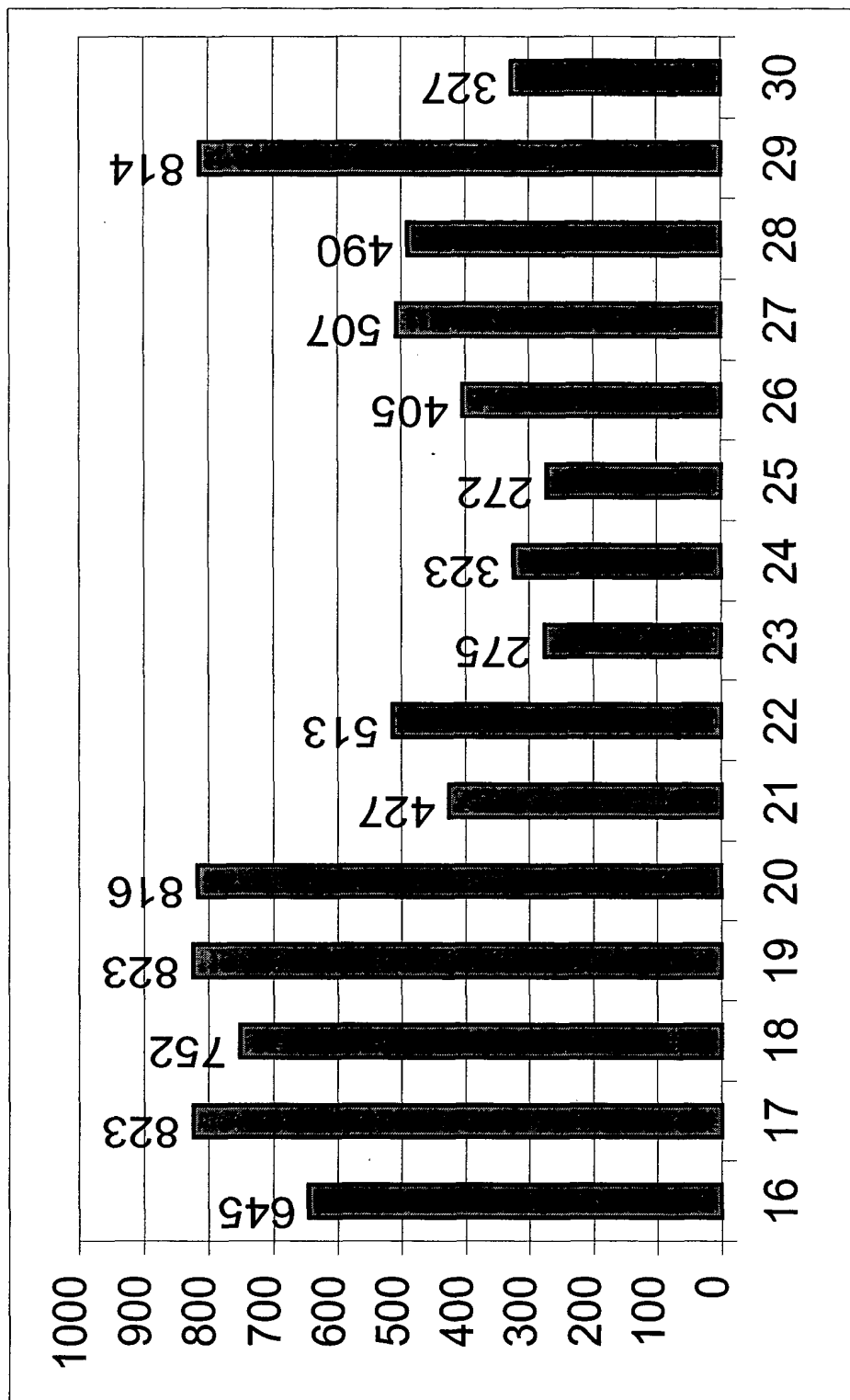


FIGURE 2b

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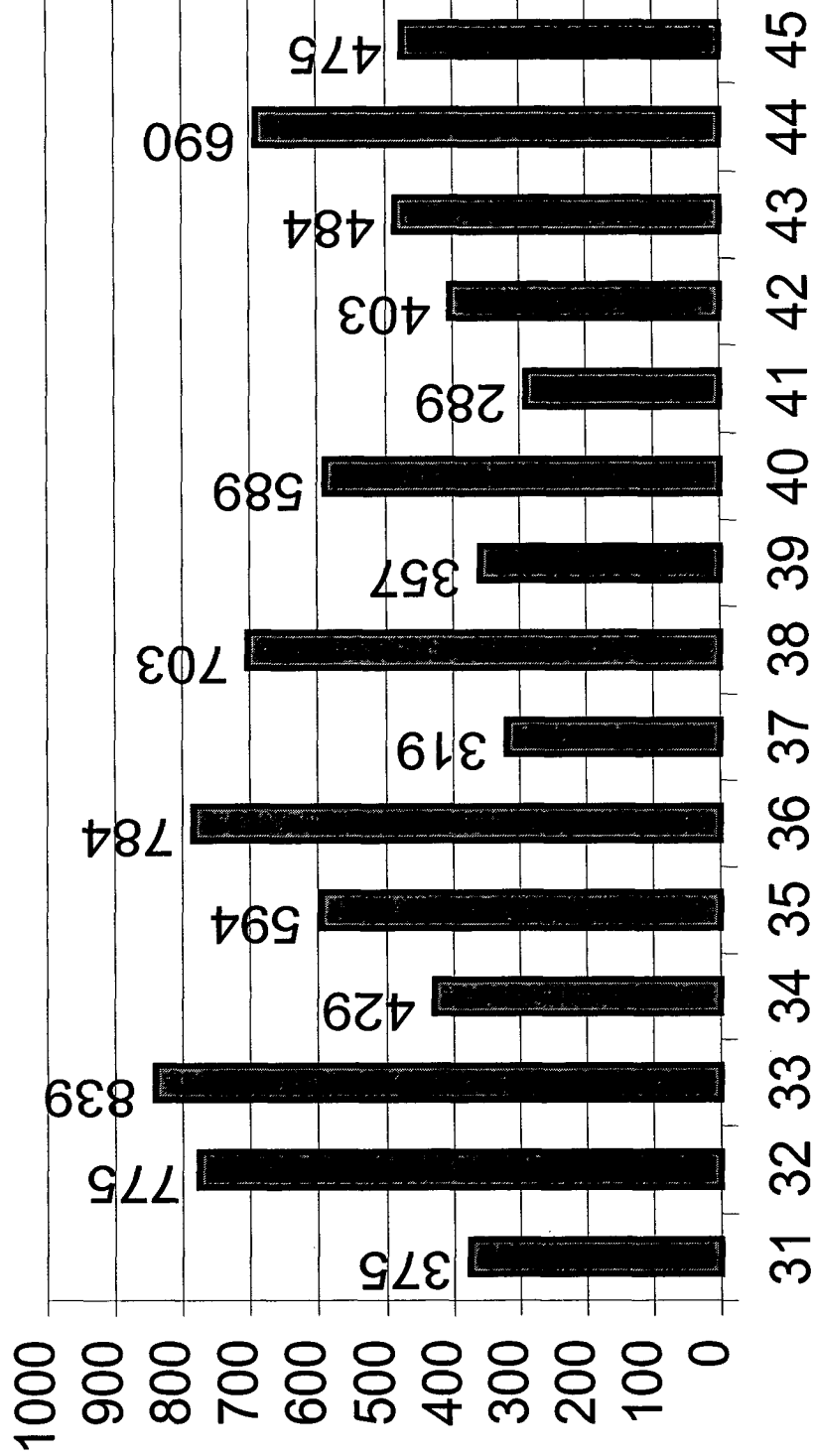


FIGURE 2c

Herbert HERZOG

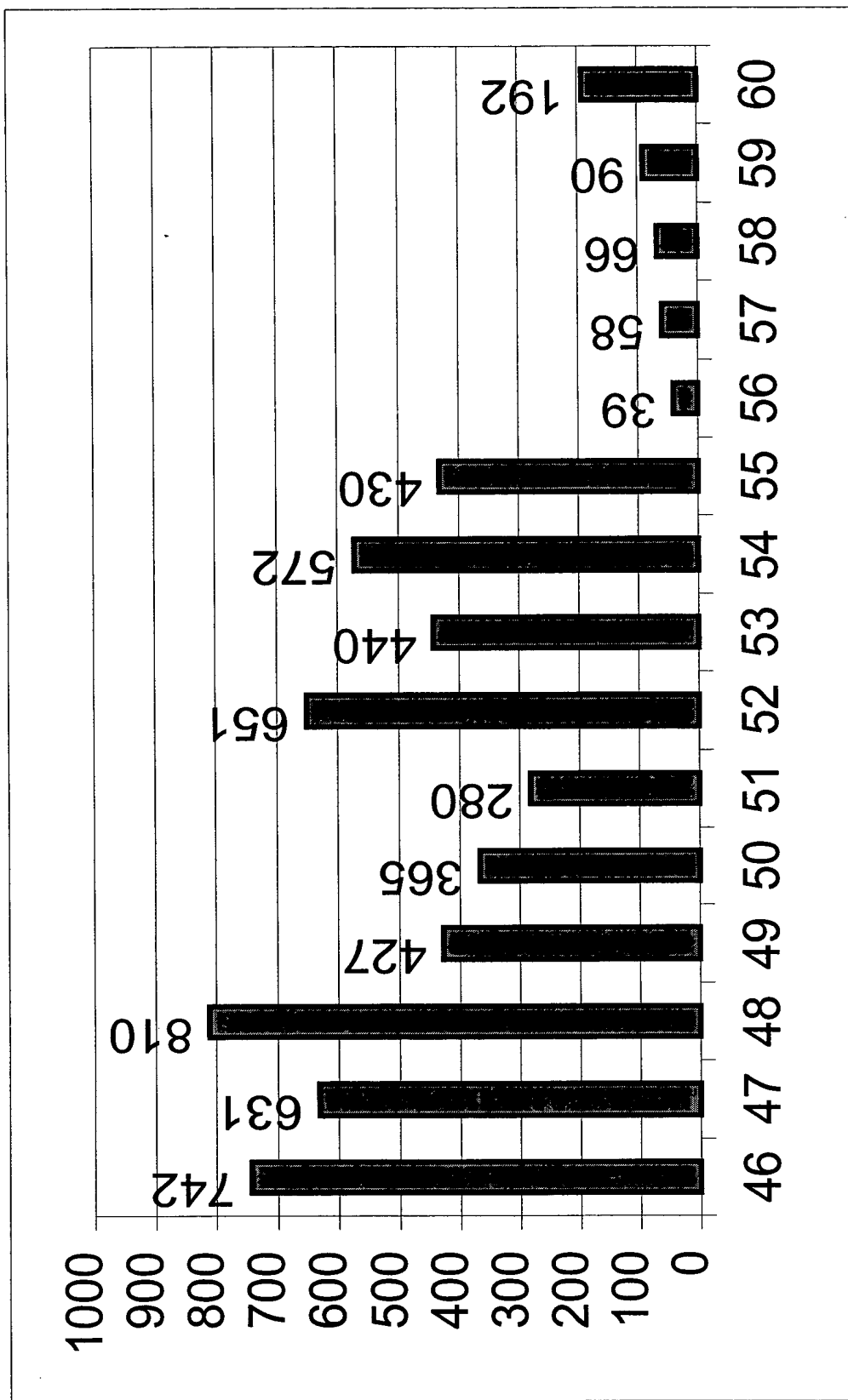


FIGURE 2d

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